

CITY OF LOWELL

PETITION

CITY COUNCIL
Conduit Location

New Circular Wireless Facility d8a ATT 87

To install a small antenna on a single
Pole on Riverside St at University Ave.

In City Council

October 19, 2021

Read and hearing ordered for 7PM on

November 9, 2021

Read, Hearing Held,
Referred to Wire In-
spector, Development
Services

City Clerk

Review of Utility Company Request for New Conduit/Pole Location

Applicant Information

Project Address

Utility
(Select one) Communications/CATV

84 University Ave on Riverside St

Reason AT&T desires to enhance its wireless cellular service by installing a small cell antenna on a single pole on Riverside St at University Ave. There are no other existing poles in the area that would satisfy the requirements for a small cell antenna of this type.

Date Submitted 9/30/2021

Review done by Joseph Cady

Sidewalk Material Concrete

Note: Sidewalk material to be replaced in kind (Concrete in full panels only)

Are Sidewalk Vaults present? YES ☐ NO ☒

Is Work on Street under a Paving Moratorium? YES ☒ NO ☐

Is this location within the Flood Plain? YES ☐ NO ☒

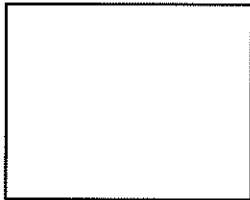
Are ADA requirements being met? YES ☒ NO ☐

Comments

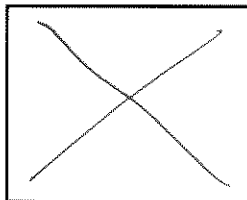
The pole will be black and 38.5 feet above the ground with the antenna installed. While the road is under moratorium it is not to be installed until mid 2022. The location of the power and fiber hand holes will be determined by the construction team in 2022. The applicant has already discussed the pole and its location with UMass Lowell.

pavement restoration limit to be determined by Engineering office
Outcome of Review during street opening permit application process.

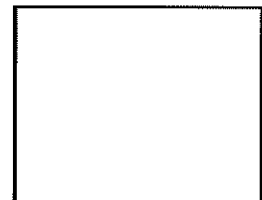
Approved



Approved With
Comments



Denied



Ting Chang, P.E.
City Engineer

August 18, 2021

City Council
City of Lowell
c/o Michael Geary
City Clerk
Lowell City Hall
375 Merrimack Street
1st Floor, Room 31
Lowell, MA 01852

Ting Chang, P.E.
City Engineer
City of Lowell
Lowell City Hall
375 Merrimack Street
3rd Floor, Room 61
Lowell, MA 01852

RE: Application of New Cingular Wireless PCS, LLC (d/b/a AT&T) for a Grant of Location for One (1) Wireless Small Cell Facility on a New Pole in the Public Right-of-Way Near 84 University Avenue, Lowell MA

Dear Honorable Members of the Lowell City Council:

As you may recall, we represent New Cingular Wireless PCS, LLC (d/b/a "AT&T") with respect to its deployment of small cell facilities in the City of Lowell and the Commonwealth of Massachusetts. AT&T is licensed by the Federal Communications Commission (the "FCC") to provide wireless communications services in the City of Lowell and throughout the Commonwealth of Massachusetts.

On behalf of AT&T and while reserving all rights, please accept this submission as an application for approval for a grant of location (the "Application") for one (1) small cell facility on a new pole located in the public right-of-way near the above referenced address (the "Site"). The Application is filed pursuant to the federal Telecommunications Act of 1996 (the "TCA"), the Declaratory Ruling and Third Report and Order 18-133 (the "Order") issued by the FCC in September 2018 https://docs.fcc.gov/public/attachments/FCC-18-133A1_Rcd.pdf, the City Manager Directive Regarding Small Wireless Facility Design & Policy Guidelines City of Lowell, MA (the "Guidelines") and Massachusetts General Laws Chapter 166, Sections 21, 22 and 25A for telecommunication wires and wireless attachments and appurtenances installed within the public right-of-way. AT&T entered into a Small Cell Agreement, as amended (the "Agreement") with the City Lowell in 2018. If approved, AT&T will amend the Agreement to



City Council
City of Lowell
August 18, 2021
Page 2

include this location. The new pole complies with, and is in accordance with the TCA, the Order, the Guidelines and Massachusetts state law.

As part of this Application, we provide a detailed set of drawings (the "Plans") including a location map for this small cell facility. Additionally, we have provided photosimulations of the proposed small cell facility. Also enclosed, please find a generic small cell facility report demonstrating compliance with applicable exposure to emissions standards established by the FCC. Additionally, based on our discussions with the City Planning Department, AT&T contacted Adam Baacke, the Executive Director of Planning, Design and Construction at UMASS Lowell, the abutting property owner, and discussed the proposed facility at the Site. We enclose an email from Mr. Baacke that UMASS will not contest the proposed facility at the location in the Plans.

AT&T proposes this low-power small cell facility in the City of Lowell to deal with the rapidly increasing demands on AT&T's wireless network. This small cell facility will work in conjunction with AT&T's existing macro cell sites installed on rooftops, towers and other structures in and around the City of Lowell. AT&T's radio frequency engineers targeted the proposed location due to the high traffic and data demands on AT&T's network in this area. AT&T's existing macro cell sites are not providing adequate data capacity near the Site due to population, vehicular and foot traffic, multiple wireless devices in use and other contributing factors. This small cell facility will work to offload the demands on the macro sites and allow for increased data capacity and speed within the immediate vicinity of the Site and near AT&T's existing macro sites.

This small cell facility will be installed using standard commercially accepted methods in accordance with all applicable federal, state and local laws, regulations and orders. As depicted on the Plans, this small cell installation on the new pole will include: internally installed fiber optic cable(s); remote radios in equipment modules (6.25 cubic feet in volume) mounted to the base and top of the pole; an unobtrusive pole top antenna measuring 24.7" long and 10" in diameter (1.22 cubic feet in volume); conduits and cable protectors; and, an electrical meter with shutoff switch and grounding rod. The new pole will be 33'6" in height with the top of the antenna being 38'6" above ground level.

THE TELECOMMUNICATIONS ACT OF 1996

Without the installation, AT&T would be unable to provide specifically established coverage and capacity objectives. There are no available or feasible existing poles located within the limited geographic area whereby AT&T's radio frequency engineers determined that wireless facilities are required. AT&T considered using the nearby pole supporting the traffic light, but the City's Engineering Department requested that AT&T not use that pole. The other



existing poles in the area either have a small cell facility already attached or are not available from the pole owner based on existing loading and/or wires carrying electrical service.

The TCA contains substantial restrictions affecting the standard for granting the requested relief. The TCA provides that: no laws or actions by any local government or planning or zoning board may prohibit, or have the effect of prohibiting, the placement, construction, or modification of communications towers, antennas, or other wireless facilities in any particular geographic area, see 47 U.S.C. §332(c)(7)(B)(i); local government or planning or zoning boards may not unreasonably discriminate among providers of functionally equivalent services, see 47 U.S.C. §332(c)(7)(B)(i); health concerns may not be considered so long as the emissions comply with the applicable standards of the FCC, see 47 U.S.C. §332(c)(7)(B)(iv); and, decisions must be rendered within a reasonable period of time, see 47 U.S.C. §332(c)(7)(B)(ii) and the Order commonly referenced as the applicable “shot clocks”. The FCC shot clock in this instance is ninety (90) days from the date of submission of the Application. We also note that the Order redefined “effective prohibition” to mean that state and local governments cannot impose requirements that materially limit or inhibit a provider’s ability to engage in activities related to the provision of service. This standard applies to efforts to introduce new or enhance coverage, capacity or service capabilities and notes that regulations that cause a financial burden or competitive disparity can be an effective prohibition.

COMPLIANCE WITH THE GUIDELINES

II. Application Requirements

a. Proof of agent designation

If the applicant is serving as an agent of a small wireless operator, the applicant must provide written documentation of the agent designation signed by the operator.

We represent AT&T, as the applicant, with respect to this Application and Centerline Communications serves as AT&T’s site acquisition agent.

b. Map

The applicant must include an aerial map showing the location of the proposed or existing support structure to which the small wireless facility is proposed to be attached, or from which a small wireless facility is proposed to be removed or replaced.

Please see the Plans submitted with this Application.

c. Photo simulations



City Council
City of Lowell
August 18, 2021
Page 4

For all applications to locate small wireless facilities in the ROW, the applicant shall provide photo simulations from at least two reasonable line-of-site locations near the proposed project site. The photo simulations must be taken from the viewpoints of the greatest pedestrian or vehicular traffic.

Please see the photo simulations submitted on page A-1 of the Plans submitted with this Application.

d. Consolidated applications

An applicant seeking to construct, modify, collocate or replace more than one small wireless facility or more than one wireless support structure within the City's ROW may file a consolidated application for multiple small wireless facility requests or wireless support structure requests provided the requests grouped on a consolidated application only address substantially the same type of small wireless facilities or substantially the same type of wireless support structures. (Note: The City may treat each request individually during application review and processing and when issuing a determination or applying these guidelines.)

This Application is submitted for one (1) small cell facility including the support structure.

e. Site and other plans and structural calculations

The applicant must include fully dimensioned site plans, elevation drawings and structural calculations that depict any known existing wireless facilities with all existing transmission equipment and other improvements, the proposed facility with all proposed transmission equipment and other improvements, and the legal boundaries of the existing right-of-way and any associated access and utility easements. Fully dimensioned site plans shall indicate the spacing from existing curb, driveways, sidewalks, light poles and any other poles or appurtenances.

Please see the Plans and structural information submitted with this Application.

f. A non-ionizing radiation electromagnetic radiation report (NIER)

A non-ionizing radiation electromagnetic radiation report (NIER) shall be submitted to the pole owner and retained on file for equipment type and model. The NIER report shall be endorsed by an RF PE licensed in the State of Massachusetts. It shall specify minimum approach distances to the general public as well as electrical and communication works that are not trained for working in an RF environment (uncontrolled) when accessing the pole by climbing or bucket. All installations shall meet or exceed all applicable structural standards, clearance standards, and provisions of the latest National Electrical Safety Code (NESC), or applicable City of Lowell construction standards. In case of conflict, the most stringent requirements shall prevail. All necessary permits shall be obtained by the wireless carrier owner and provided to the pole owner and the City of Lowell.



Please see the exposure to radio frequency emissions report submitted with this Application which demonstrates compliance with the applicable FCC standards. The proposed small cell facility will comply with all applicable federal, state and local requirements.

g. Number and dimensions of facilities and/or structures to be installed

The applicant must include a full description of the number and dimensions of all small wireless facilities proposed to be installed and the wireless support structure, either new or existing, to be utilized for each small wireless facility. For all equipment proposed to be installed, the applicant must include: (1) the manufacturer's name and model number; (2) physical dimensions, including without limitation, height, width, depth and weight with mounts and other necessary hardware; and (3) the ambient noise level generated from the equipment, if any.

Please see the Plans submitted with this Application. According to the equipment specifications from the manufacturer, the ambient noise produced by the radio units is expected to be only 28 dBA at a distance of two (2) meters at a temperature of 68 degrees Fahrenheit. AT&T will minimize noise and notes the proposed locations are not in residential areas.

h. Owner's Authorization

For any application to attach a small wireless facility to a wireless support structure that is not owned by the City, the applicant must submit evidence sufficient to show that either: (1) applicant owns the proposed support structure; or (2) applicant has obtained the owner's written authorization to file the application.

The new pole will be owned by an entity authorized to install infrastructure in the public right-of-way.

III. Aesthetic Requirements

All cables, wires, and connectors related to the small wireless facility must be fully concealed on the wireless support structure and shall match the color of the wireless support structure. There shall be no external cables and wires related to the small wireless facility hanging off or otherwise exposed on the wireless support structure.

As depicted on the Plans submitted with the Application, AT&T will fully conceal all cables and will and will work with the City regarding the color to match the color of the existing poles in the area of the Site

All colors shall match the background of any wireless support structure that the facilities are located upon, including equipment cabinets.



AT&T will match the color of the existing poles in the area of the Site to the extent possible and will work with the City regarding the color.

Equipment enclosures, including electric meters, shall be as small as possible. Ground-mounted equipment shall incorporate concealment elements into the proposed design matching color and materials of the wireless support structure unless other materials or colors are approved by the City.

AT&T's proposed equipment enclosures are as small as possible for the wireless facility to function properly. The equipment enclosures include concealment elements that have matching color and material type and are incorporated into the new pole.

Radio equipment shall be fully enclosed within an equipment cabinet or concealed within the antenna shroud enclosure matching the color and materials of the wireless support structure unless other materials or colors are approved by the City.

AT&T's proposed radio equipment is fully enclosed within equipment enclosures and AT&T will work with the City to provide the best color to match the existing poles and surroundings in the area of the Site.

Landscaping concealing equipment enclosures shall be planted in such quantity and size such that 100% screening is achieved within two-years of installation.

AT&T's small cell facilities will be located on a new pole with antenna and equipment enclosures incorporated into the pole on a sidewalk so no landscaping for ground-based equipment cabinet is required.

Signage: the small wireless facility permittee shall post its name, location, identifying information, and emergency telephone number in an area on the cabinet of the small wireless facility that is visible to the public. Signage required under this section shall not exceed 3 inches by 4 inches, unless otherwise required by law (e.g., radiofrequency (RF) ground notification signs) or the City. If no cabinet exists, the signage shall be placed on the base of the pole.

Please see the enclosed Plans with respect to required signage.

Lights: new small wireless facilities and wireless support structures shall not be illuminated, except in accord with state or federal regulations, or unless illumination is integral to the camouflaging strategy such as design intended to look like a street light pole.

Please see the enclosed Plans. The proposed pole is designed to match the existing poles in the area and will not contain a light.



Logo/Decals: the small wireless facility operator/permittee shall remove or paint over unnecessary equipment manufacturer decals. The color shall match or shall be as approved by the City.

Please see the enclosed Plans.

IV. Location Requirements

a. Most preferable locations

The following are the most preferred areas for new small wireless facilities in the order of preference:

- i. Industrial Districts if not adjacent to a park, residential district or historic district.
- ii. Highway Rights of Way areas if not adjacent to a park, residential district, or historic district.
- iii. Retail and Commercial Districts if not adjacent to a park, residential district or historic district.

The Site is located in a commercial/business/educational use area and not in a predominantly residential area.

b. Collocation preference

It is the City's strong preference that whenever an applicant proposes to place a new small wireless facility that the applicant collocate the same on existing wireless support structures.

There are no available or feasible existing poles located within the limited geographic area whereby AT&T's radio frequency engineers determined that wireless facilities are required. AT&T considered using the nearby existing pole supporting the traffic light but the City's Engineering Department preferred AT&T not use that pole. The other existing poles in the area either have a small cell facility already attached or are not available from the owner of the pole based on existing loading and/or existing wires carrying electrical service.

c. Least preferable locations

The following are the least preferred areas for new small wireless facilities:

- i. Residential Districts
- ii. Parks
- iii. Historic Districts



The Site is not residential, in a park or in an historic district.

d. Consideration of alternate locations

The City reserves the right to propose an alternate location for a small wireless facility and/or wireless support structure to the location proposed in the application within one hundred feet of the proposed location or within a distance that is equivalent to the width of the ROW in or on which the small wireless facility and/or wireless support structure is proposed, whichever is greater, which the operator shall use if it has the right to use the alternate location on reasonable terms and conditions and the alternate location does not impose technical limits or additional costs.

AT&T's proposed facilities reasonably comply with the Guidelines. AT&T is willing to work cooperatively with the City Council but as noted above, there are not existing poles available. Likewise, any alternative location would impose additional cost on AT&T. To the extent not preempted by federal or state laws, regulations or orders, and while reserving all rights, AT&T acknowledges these provisions.

e. Placement guidelines

The City desires to promote cleanly organized and streamlined facilities using the smallest and least intrusive means available to provide wireless services to the community. Generally, a small wireless facility and/or wireless support structure shall match and be consistent with the materials and finish of the wireless support structure, adjacent City poles, and of the surrounding area adjacent to their location. In the absence of adjacent City poles, the wireless support structure shall match the materials and finish of the adjacent utility poles.

AT&T proposes to install a new pole similar in design to existing poles. The wireless equipment will be incorporated into the pole to minimize visual impact.

The following additional guidelines on placement shall apply:

Small wireless facilities and wireless support structures shall be located in a manner that does not impede, obstruct, or hinder usual public pedestrian or vehicular travel or public safety on a ROW.

The new pole will not impede, obstruct or hinder usual public pedestrian or vehicular travel or public safety on the ROW.

Small wireless facilities and wireless support structures shall be located in a manner that does not obstruct the legal use of a ROW by a utility provider.

This Application seeks approval for a new pole in compliance with these provisions and will not obstruct the legal use of a ROW by a utility provider.



Small wireless facilities and wireless support structures shall be located in a manner that does not violate or conflict with the City Code of Ordinances, applicable laws and regulations, or these Guidelines.

To the extent not preempted by federal or state laws, regulations or orders, and while reserving all rights, AT&T acknowledges these provisions. AT&T's proposed facility will comply with the Guidelines and all applicable laws and regulations to the extent possible.

Small wireless facilities and wireless support structures shall be located in a manner that does not violate the federal Americans with Disabilities Act.

AT&T will comply federal Americans with Disabilities Act.

Small wireless facilities and wireless support structures shall be located in a manner that does not negatively impact the structural integrity of the associated wireless support structure.

This Application seeks approval for a new pole in compliance with these provisions as evidenced by the structural reports submitted with the Application.

Small wireless facilities and wireless support structures shall be located in alignment with existing trees, utility poles, and streetlights.

AT&T's proposed facility is in alignment with existing poles in the area of the Site.

Small wireless facilities and wireless support structures shall be located with appropriate clearance from existing utilities.

As depicted on the Plans, the proposed pole will maintain appropriate clearances from existing utilities.

Small wireless facilities and wireless support structures shall be located so as not to be located along the frontage of any building deemed to be of historic significance on a federal, state, or local level.

As depicted on the Plans, the proposed pole will not be located along the frontage of any building deemed to be of historic significance.

Small wireless facilities and wireless support structures shall be located not within sight triangles at street intersections.



City Council
City of Lowell
August 18, 2021
Page 10

As depicted on the Plans, the proposed installation on the new pole will not be located within sight triangles at street intersections.

New wireless support structures shall not be located directly in front of any existing residential, commercial or industrial structure.

As depicted on the Plans, the proposed installations on the new pole will not be located directly in front of any existing residential, commercial or industrial structure.

To the greatest extent possible, new wireless support structures shall be located in line with existing lot lines or equidistance from any two existing structures. In areas of the City where multiple structures abut each other and/or where no side lot setback requirements exist, new wireless support structures shall not be located directly in front of an entrance or window of any existing structure.

As depicted on the Plans, the proposed installation on the new pole will be in line with existing structures and in accordance with the input provided by UMASS Lowell, the abutting property owner.

Tree “topping” or the improper pruning of trees is prohibited. Any proposed pruning or removal of trees, shrubs, or other landscaping already existing in the ROW must be noted in the application and must be approved by the City.

There are no trees in the area of the proposed installation.

I. Limitations

While the City fully intends to apply the Guidelines established in this policy uniformly to all small wireless facility applications, there may be circumstances where not every specific guideline may be met. In these cases, City staff will use its reasonable discretion in approving small wireless facilities permit applications that deviate from the strict application of this policy.

AT&T appreciates that City staff is required to use its reasonable discretion in approving small wireless facilities that deviate from the strict application of the Guidelines. AT&T is committed to working cooperatively with the City of Lowell within the confines of state and federal laws, rules regulations and orders.

CONCLUSION

We respectfully assert that AT&T's proposed small cell facility is reasonable and reasonably complies with the requirements of the City of Lowell in light of the TCA, the Order and state law. AT&T is willing to work cooperatively with the City of Lowell with respect the deployment of its small cell facilities and we look forward to your feedback. We respectfully



City Council
City of Lowell
August 18, 2021
Page 11

submit that the standards as set forth in the Guidelines, as well as Massachusetts law relating to this Application must be interpreted and applied such that the decision issued by the City Council is in conformance with the TCA and the Order.

For the convenience of the City Council, we have provided a proposed Form of Order for your consideration.

If you have any questions, please don't hesitate to contact me. We look forward to presenting the Application at an upcoming meeting.

Sincerely,

BROWN RUDNICK LLP

/s/Edward D. Pare, Jr.
Edward D. Pare, Jr.

Enclosures: Plans
Photosimulations
Structural Report
Emissions Report
Correspondence from USMASS Lowell
Proposed Order

cc: Christine Clancy, P.E., Public Works Commissioner



AT&T SITE ID: AREA6_54
84 UNIVERSITY AVE.
LOWELL, MA 01854



550 COCHRANE ROAD
FRAMINGHAM, MA 01701



750 WEST CENTER STREET,
SUITE #301
WEST BRIDGEWATER, MA 02379



HUDSON
Design Group LLC
1000 WASHINGTON STREET
LOWELL, MA 01854



CHECKED BY: AT

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION
1	07/10/02	ISSUED FOR BIDDING
2	08/01/02	ISSUED FOR BIDDING
3	08/01/02	ISSUED FOR BIDDING
4	08/01/02	ISSUED FOR BIDDING
5	08/01/02	ISSUED FOR BIDDING
6	08/01/02	ISSUED FOR BIDDING

CLUSTER AND NODE NUMBER:
AREA6_54

SITE ID:
AREA6_54
SITE ADDRESS:
84 UNIVERSITY AVE
LOWELL, MA 01854
ESSEX COUNTY

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

GENERAL NOTES

- THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. NO PORTION OF THIS DOCUMENT IS TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT EXPRESS WRITTEN PERMISSION OF AT&T. ANY VIOLATION OF THIS POLICY IS PROHIBITED AND WILL BE PROSECUTED TO THE FULL EXTENT OF THE LAW. ANY UNAUTHORIZED REPRODUCTION OR TRANSMISSION OF THIS DOCUMENT IS PROHIBITED AND WILL BE PROSECUTED TO THE FULL EXTENT OF THE LAW. ANY UNAUTHORIZED REPRODUCTION OR TRANSMISSION OF THIS DOCUMENT IS PROHIBITED AND WILL BE PROSECUTED TO THE FULL EXTENT OF THE LAW.
- THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY TO BE USED FOR THE PURPOSES SPECIFIED IN THE CONTRACT. NO OTHER USES ARE PERMITTED. THE FACILITY IS NOT TO BE USED FOR ANY OTHER PURPOSES. THE FACILITY IS NOT TO BE USED FOR ANY OTHER PURPOSES. THE FACILITY IS NOT TO BE USED FOR ANY OTHER PURPOSES.
- CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE PROJECT OWNER'S REPRESENTATIVE IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.
- CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN.

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE PROJECT OWNER'S REPRESENTATIVE IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

CALL 811



WWW.DIGSAFE.COM
72 HOURS PRIOR
UNDERGROUND SERVICE ALERT

VICINITY MAP (NOT TO SCALE)



DRIVING DIRECTIONS

FROM FRAMINGHAM, MA:
HEAD SOUTHWEST, TURN RIGHT TOWARD LEGGATT McCALL CORN. TURN LEFT ONTO LEGGATT McCALL CORN. CONTINUE ONTO BURR ST. TURN LEFT ONTO COCHRANE RD. TAKE THE I-90 E/MASS PIKE RAMP TO BOSTON. MERGE ONTO I-90 E. TAKE EXIT 123 TOWARD N-40/PORTSMOUTH/PROVIDENCE. KEEP LEFT AT THE FORK. FOLLOW SIGNS FOR I-495 N-40/PORTSMOUTH/PROVIDENCE. TAKE EXIT 5 B TO MERGE ONTO MA-3A THORNDIKE ST. FOLLOW SIGNS FOR I-495 N-40/PORTSMOUTH/PROVIDENCE. TAKE EXIT 5 B TO MERGE ONTO MA-3A THORNDIKE ST. MERGE ONTO MA-3A N / THORNDIKE ST. SLIGHT RIGHT ONTO MA3A. SLIGHT RIGHT ONTO DUTTON ST. TURN LEFT ONTO AROUND ST. SLIGHT LEFT ONTO MERRIMACK ST. CONTINUE ONTO UNIVERSITY AVE.

SHEET INDEX

SHEET NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	4
GN-1	GENERAL NOTES	4
A-1	KEY PLAN AND ELEVATION	4
A-2	EQUIPMENT DETAILS	4
E-1	ELECTRICAL & GROUNDING DETAILS	4

PROJECT DESCRIPTION

- INSTALLATION OF ANTENNA AND ASSOCIATED EQUIPMENT ON PROPOSED METAL POLE.
- THIS IS AN UNMANNED AND RESTRICTED ACCESS EQUIPMENT SITE AND WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNALS FOR THE PURPOSE OF IMPROVING CELLULAR AND WIRELESS INTERNET SERVICE.

PROJECT SUMMARY

SITE ADDRESS:	84 UNIVERSITY AVE. LOWELL, MA 01854
COUNTY:	ESSEX
LATITUDE:	42.653868 N
LONGITUDE:	71.327089 W
POLE OWNER:	NATIONAL GRID
STRUCTURE TYPE:	METAL POLE
ARCHITECT/ENGINEER:	HUDSON DESIGN GROUP LLC 45 BEECHWOOD DRIVE NORTH ANDOVER, MA 01845